

Fig. 1

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POSITION / ADDRESS		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ROW (1)		1	1	1	0	1	0	1	1	1	0	0	0	1	0	1	1	1	0	0	1
ROW (2)		1	1	1	0	1	0	0	1	1	0	0	0	1	1	0	0	1	0	0	1
ROW (3)		0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	0	0	0	0

42 44 46 48 50

KEYS:

ROW (1): ORIGINAL CONFIGURATION-DATA SEQUENCE

ROW (2): ENCRYPTED CONFIGURATION-DATA SEQUENCE

ROW (3): SECRET SEQUENCE STORED IN NONVOLATILE STORAGE MEANS 22

POSITIONS 7 AND 14-16: BITS TO BE ENCRYPTED

Fig. 2

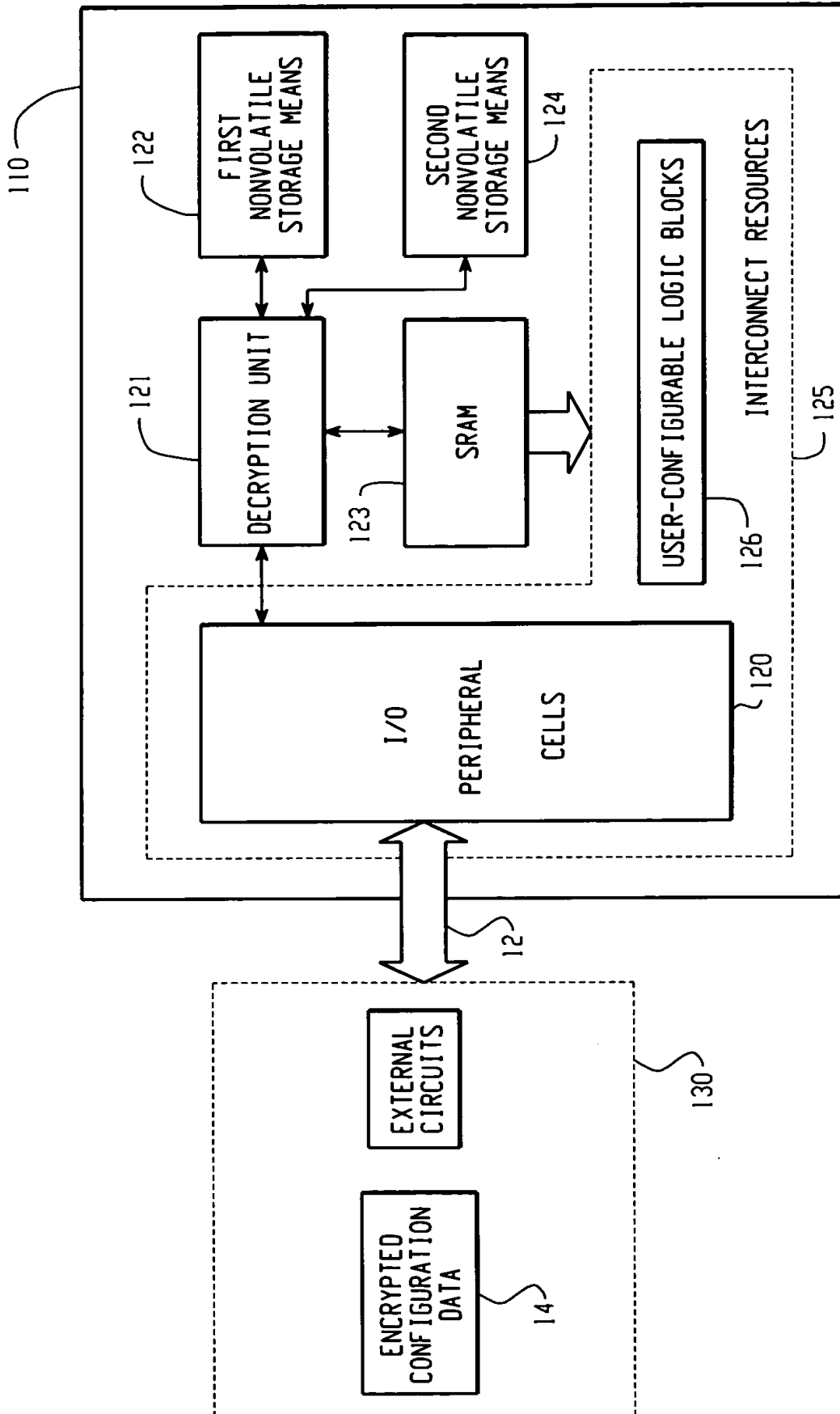


Fig. 3

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POSITION / ADDRESS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ROW (1)	1	1	1	0	1	0	1	1	1	0	0	0	1	0	1	1	1	0	0	1
ROW (2)	1	1	1	0	1	0	0	1	1	0	0	0	1	m_{14}	m_{15}	m_{16}	1	0	0	1
ROW (3)	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	0	0	0	0
ROW (4)	X	X	X	X	X	X	1	X	X	X	X	X	X	0	1	1	X	X	X	X

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KEYS:

ROW (1): ORIGINAL CONFIGURATION-DATA SEQUENCE

ROW (2): ENCRYPTED CONFIGURATION-DATA SEQUENCE: $m_{14} m_{15} m_{16} \in \{000, 001, 010, 100, 101, 110, 111\}$

ROW (3): ADDRESS INFORMATION STORED IN THE FIRST NONVOLATILE STORAGE MEANS 122

ROW (4): OVERWRITE-DATA INFORMATION STORED IN THE SECOND NONVOLATILE STORAGE MEANS 124; X=DON'T CARE.
POSITIONS 7 AND 14-16: BITS TO BE ENCRYPTED

Fig. 4

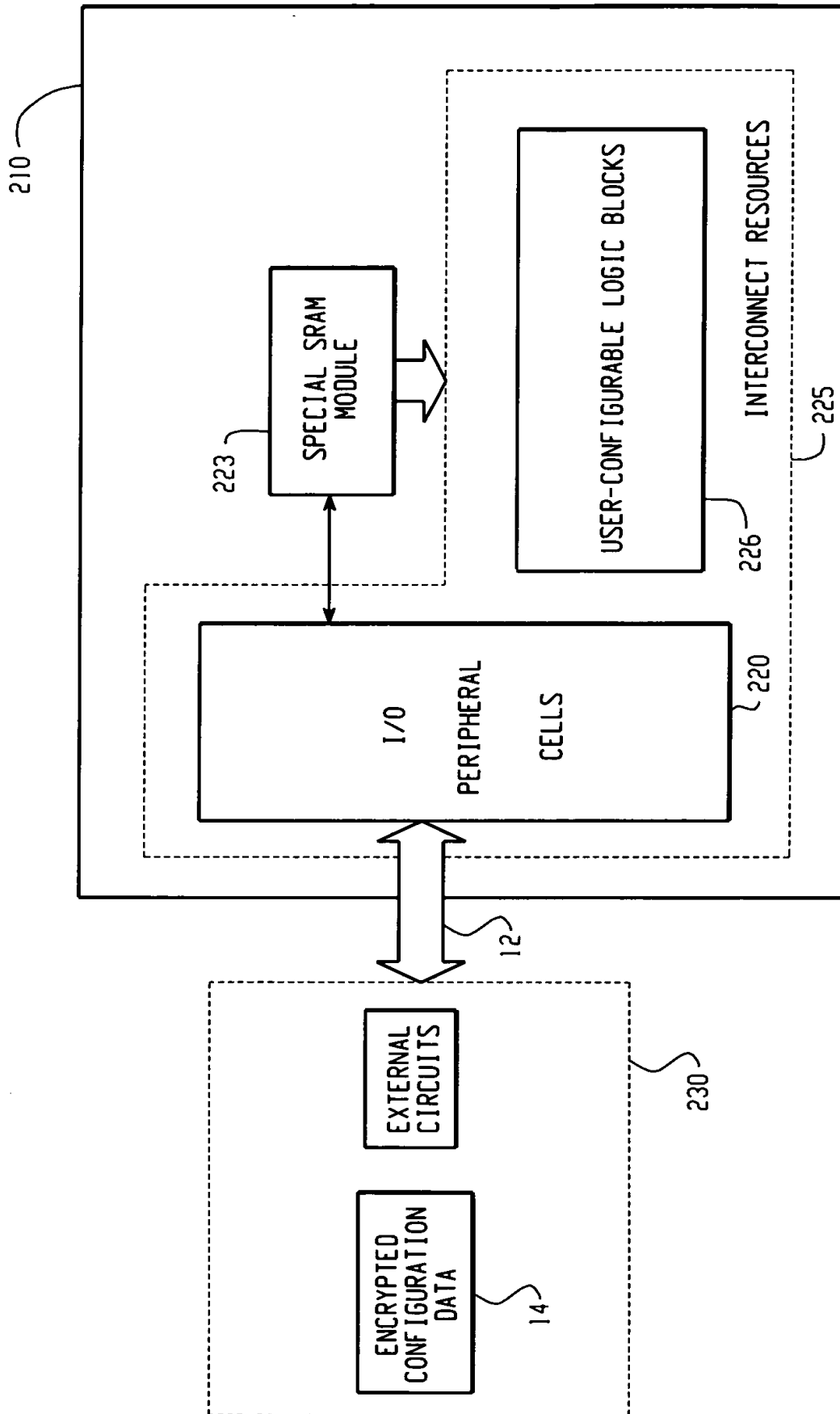


Fig. 5

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POSITION/ ADDRESS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ROW (1)	1	1	1	0	1	0	1	1	1	0	0	0	1	0	1	1	1	0	0	1
ROW (1)	1	1	1	0	1	0	0	1	1	0	0	0	1	m_{14}	m_{15}	m_{16}	1	0	0	1
ROW (1)	R/W	R/W	R/W	R/W	R/W	R/W	@1	R/W	R/W	R/W	R/W	R/W	R/W	@0	@1	@1	R/W	R/W	R/W	R/W

KEYS:
ROW (1): ORIGINAL CONFIGURATION-DATA SEQUENCE
ROW (2): ENCRYPTED CONFIGURATION-DATA SEQUENCE; $m_{14} m_{15} m_{16} \in \{000, 001, 010, 100, 101, 110, 111\}$
ROW (4): READ/WRITE STATUS OF THE SPECIAL SRAM MODULE 223; R/W=READ-AND-WRITE POSSIBLE; @=STICKING AT POSITIONS 7 AND 14-16: BITS TO BE ENCRYPTED

Fig. 6

22 →

7	60
14	60
15	60
16	
EOL	62
:	
:	
:	
:	

Fig. 7

22 →

(7, 1)	60
(14, 0)	60
(15, 1)	60
(16, 1)	
EOL	62
:	
:	
:	
:	

Fig. 8

22 →

(7, MODIFICATION, x)	60
(14, OVERWRITE, 0)	60
(15, MODIFICATION, x)	60
(16, OVERWRITE, 1)	
EOL	62
:	
:	
:	
:	

Fig. 9